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EJB and UML

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Christian Nentwich, Wolfgang Emmerich, Anthony Finkelstein

May 2003 ICSE '03: Proceedings of the 25th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available: [Publisher Site](#), Pdf (1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 31, Citation Count: 12

Comprehensive consistency management requires a strong mechanism for repair once inconsistencies have been detected. In this paper we present a repair framework for inconsistent distributed documents. The core piece of the framework is a new method for ...

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2 [Modeling components and frameworks with UML](#)

Cris Kobryn

October 2000 Communications of the ACM, Volume 43 Issue 10

Publisher: ACM

Full text available: Html (35.10 KB), Pdf (226.29 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 238, Citation Count: 5

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3 [Communications of the ACM: Volume 51 Issue 8](#)

August 2008 issue Volume 51 Issue 8

Publisher: ACM

Full text available: Digital Edition, Pdf (6.85 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1079, Downloads (12 Months): 1812, Citation Count: 0

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4 [Model driven security: From UML models to access control infrastructures](#)

David Basin, Jürgen Doser, Torsten Lodderstedt

January 2006 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 15 Issue 1

Publisher: ACM

Full text available: Pdf (968.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 497, Citation Count: 6

We present a new approach to building secure systems. In our approach, which we call Model Driven Security, designers specify system models along with their security requirements and use tools to

automatically generate system architectures from the models, ...

Keywords: Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

5 Static analysis of role-based access control in J2EE applications



Gleb Naumovich, Paolina Centonze

September 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 5

Publisher: ACM

Full text available: Pdf (110.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 66, Citation Count: 4

This work describes a new technique for analysis of Java 2, Enterprise Edition (J2EE) applications. In such applications, Enterprise Java Beans (EJBs) are commonly used to encapsulate the core computations performed on Web servers. Access to EJBs is ...

6 Development of software engineering: co-operative efforts from academia, government and industry



Fuqing Yang, Hong Mei, Hong Mei

May 2006 ICSE '06: Proceedings of the 28th international conference on Software engineering

Publisher: ACM

Full text available: Pdf (964.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 240, Citation Count: 1

In the past 40 years, software engineering has emerged as an important sub-field of computer science. The quality and productivity of software have been improved and the cost and risk of software development been decreased due to the contributions made ...

7 Anatomy of the ADO.NET entity framework



Atul Adya, José A. Blakeley, Sergey Melnik, S. Muralidhar

June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (732.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 397, Citation Count: 0

Traditional client-server applications relegate query and persistence operations on their data to database systems. The database system operates on data in the form of rows and tables, while the application operates on data in terms of higher-level programming ...

Keywords: ADO.NET, conceptual modeling, data programming

8 Post-development software architecture



Gang Huang

September 2007 ACM SIGSOFT Software Engineering Notes, Volume 32 Issue 5

Publisher: ACM

Full text available: Pdf (623.19 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 267, Citation Count: 0

Software architecture (SA) plays an important role in software development. Since the lifecycle stages post development become more and more important and face with many challenges similar to the development, it is a natural idea to introduce or extend ...

Keywords: deployment, runtime software architecture, software architecture, software maintenance

9 [Server-centric Web frameworks: An overview](#)

 Iwan Vosloo, Derrick G. Kourie
April 2008 ACM Computing Surveys (CSUR) . Volume 40 Issue 2
Publisher: ACM


Full text available:  Pdf (254.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 198, Downloads (12 Months): 1605, Citation Count: 0

Most contemporary Web frameworks may be classified as server-centric. An overview of such Web frameworks is presented. It is based on information gleaned from surveying 80 server-centric Web frameworks, as well as from popular related specifications. ...

Keywords: Architecture, specification techniques, user interfaces, web frameworks

10 [Keeping track of crosscutting requirements in UML models via context-based constraints](#)

 Felix Bübl
October 2006 OOPSLA '06: Companion to the 21st ACM SIGPLAN symposium on Object-oriented programming systems, languages, and applications
Publisher: ACM

Full text available:  Pdf (565.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 114, Citation Count: 0

One crosscutting requirement (also called aspect) affects several parts of a software system. Handling aspects is well understood at source-code level or at runtime. However, only a few aspect-oriented approaches handle other software artefact types, ...

Keywords: AOP, AOSD, UML, constraints, modelling, requirements engineering

11 [Behavioural analysis of the enterprise JavaBeans component architecture](#)


Shin Nakajima, Tetsuo Tamai
May 2001 SPIN '01: Proceedings of the 8th international SPIN workshop on Model checking of software
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (273.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 44, Citation Count: 1

Rigorous description of protocols (a sequence of events) between components is mandatory for specifications of distributed component frameworks. This paper reports an experience in formalizing and verifying behavioural aspects of the Enterprise Java ...

12 [Compiling model transformations to EJB3-specific transformer plugins](#)

 András Balogh, Gergely Varró, Dániel Varró, András Pataricza
April 2006 SAC '06: Proceedings of the 2006 ACM symposium on Applied computing
Publisher: ACM

Full text available:  Pdf (273.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 43, Citation Count: 4

We present a technique for compiling model transformations defined by a combination of graph transformation and abstract state machine rules (as used within the VIATRA2 framework) into stand-alone transformer plugins for the EJB 3.0 platform. As a result, ...

Keywords: EJB 3.0, abstract state machines, graph transformation, model transformation, transformer plugins

13 [A model of dynamic resource allocation in workflow systems](#)

Guido Governatori, Antonino Rotolo, Shazia Sadiq

January 2004 ADC '04: Proceedings of the 15th Australasian database conference - Volume 27, Volume 27

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (247.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 45, Citation Count: 3


Current collaborative work environments are characterized by dynamically changing organizational structures. Although there have been several efforts to refine work distribution, especially in workflow management, most literature assumes a static database ...

14 [XML-enabled workflow management for e-services across heterogeneous platforms](#)

German Shegalov, Michael Gillmann, Gerhard Weikum

August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10, Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (662.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 104, Citation Count: 15

Advanced e-services require efficient, flexible, and easy-to-use workflow technology that integrates well with mainstream Internet technologies such as XML and Web servers. This paper discusses an XML-enabled architecture for distributed workflow management ...

Keywords: Business processes, Information system interoperability, Internet e-services, Workflow management, XML/XSL

15 [Extending model driven architecture benefits to requirements engineering](#)

Salah Kabanda, Mathew Adigun

October 2006 SAI CSI T '06: Proceedings of the 2006 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  Pdf (145.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 240, Citation Count: 0

This work focuses on developing a requirement engineering model (RSPL) based on a Model Driven Architecture (MDA) and Web-tier Application Framework (WAF), to support automatic and interactive requirements generation when creating families of systems. ...


Keywords: model driven architecture, requirement specification model for product lines, software product line engineering, web-tier application framework

16 [Designing UML diagrams for technical documentation](#)



Neil MacKinnon, Steve Murphy

October 2003 SIGDOC '03: Proceedings of the 21st annual international conference on Documentation
Publisher: ACM

Full text available:  Pdf (276.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 123, Citation Count: 4

This paper presents a framework for improving the presentation of Unified Modeling Language (UML) diagrams, as applied in technical documentation produced at the IBM Toronto Software Laboratory. UML diagrams are a key part of program design. They can ...

Keywords: UML diagrams, documentation, graphic design, guidelines, human factors, unified modeling language, visualization

17 [Models, reflective mechanisms and family-based systems to support dynamic configuration](#)

N. Bencomo, G. Blair, P. Grace
 November 2006 MODDM '06: Proceedings of the 1st workshop on Model Driven Development for Middleware (MODDM '06)

Publisher: ACM

Full text available:  Pdf (218.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 59, Citation Count: 1

Middleware platforms must satisfy an increasingly broad and variable set of requirements arising from the needs of both applications and underlying systems deployed in dynamically changing environments such as environment monitoring and disaster management. ...

Keywords: DSL, MDE, grid computing, reflective middleware, system families

18 [Mapping component specifications to Enterprise JavaBeans implementations](#)

Yi Liu, H. Conrad Cunningham
 April 2004 ACM-SE 42: Proceedings of the 42nd annual Southeast regional conference
 Publisher: ACM

Full text available:  Pdf (377.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 71, Citation Count: 1

Component-based software development has become an important approach to building complex software systems. Much research focuses on component specification to achieve the advantages of the component-based approach in theory. Most of this research pays ...

Keywords: Enterprise JavaBeans, component software, design mapping

19 [Model driven benchmark generation for web services](#)

Liming Zhu, Ian Gorton, Yan Liu, Ngoc Bao Bui
 May 2006 SOSE '06: Proceedings of the 2006 international workshop on Service-oriented software engineering
 Publisher: ACM

Full text available:  Pdf (446.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 249, Citation Count: 0

Web services solutions are being increasingly adopted in enterprise systems. However, ensuring the quality of service of Web services applications remains a costly and complicated performance engineering task. Some of the new challenges include limited ...

Keywords: MDA, code, model-driven development, performance, testing

20 [Creating custom containers with generative techniques](#)

Gabriel A. Moreno
 October 2006 GPCE '06: Proceedings of the 5th international conference on Generative programming and component engineering
 Publisher: ACM

Full text available:  Pdf (218.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 1

Component containers are a key part of mainstream component technologies, and play an important role in separating non-functional concerns from the core component logic. This paper addresses two different aspects of containers. First, it shows how generative ...

Keywords: AspectC++, aspect-oriented programming, component, container, generative programming, meta-programming, non-functional concern

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